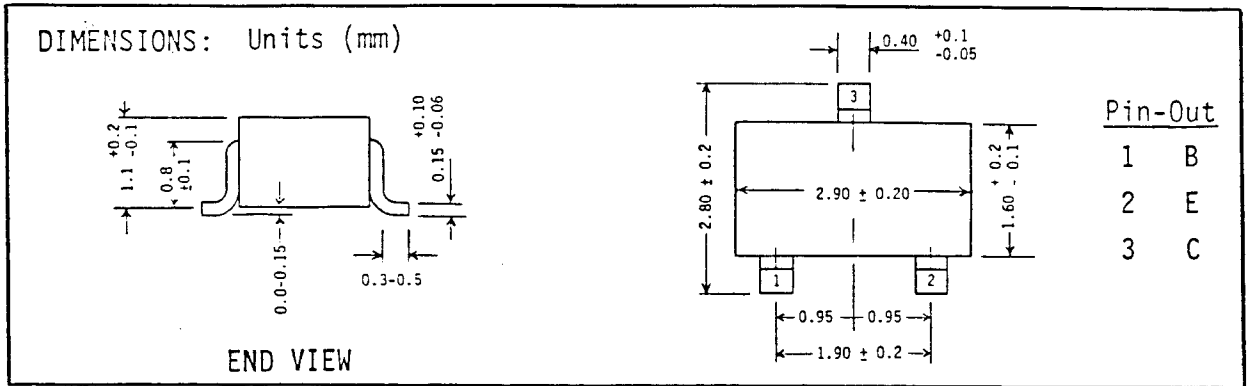


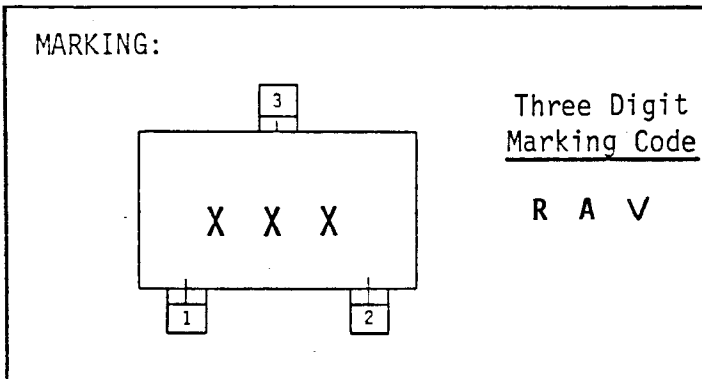
| | |
|---|-----------------------|
| CUSTOMER | NO. MMST8098 |
| | PAGE 1 of 2 |
| | DATE January 14, 1987 |
| SUBJECT SOT-23 TRANSISTOR, NPN, SILICON | |

ABSOLUTE MAXIMUM RATINGS: (Ta = 25°C)

| | | |
|--|-----------------------------------|---------------|
| Collector-Base Voltage | V _{CB0} | 60 V |
| Collector-Emitter Voltage | V _{CE0} | 60 V |
| Emitter-Base Voltage | V _{EB0} | 6 V |
| Collector Current | I _C | 200 mA |
| Power Dissipation-Free Air | P _D | 200 mW |
| Power Dissipation-Ceramic Substrate | P _D | 350 mW |
| Operating and Storage Junction Temperature | T _J , T _{stg} | -55 to 150 °C |
| Solder Temperature (10 seconds) | | 260 °C |



THE JAPANESE STYLE SC-59 PACKAGE



PACKAGING:

| | |
|-------|-------------------------|
| _____ | BULK, 500 per BAG |
| _____ | MAGAZINES OF 50 EACH |
| _____ | 8mm T&R, T-146 3K/REEL |
| _____ | 8mm T&R, T-147 3K/REEL |
| _____ | 8mm T&R, T-246 10K/REEL |
| _____ | 8mm T&R, T-247 10K/REEL |

REMARKS: PROCESS: C-22 Thermal Resistance R_{θJA} 625 °C/Watt
FREE AIR, T_A = 25°C

| | | | |
|--|--------------|-------|--------|
| ROHM ELECTRONICS 3034 Owen Drive, Antioch, TN 37013 TEL:(615)641-2020 FAX:(615)641-2022 | APPROVAL | CHECK | DESIGN |
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|--|-----------------------|
| CUSTOMER | NO. MMST8098 |
| | PAGE 2 of 2 |
| SUBJECT TRANSISTOR, NPN ,SILICON S0T-23 | DATE January 14, 1987 |

ELECTRICAL CHARACTERISTICS: (Ta = 25°C Unless Otherwise Specified)

| PARAMETER | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|-----------|-------------------------------------|-----|-----|-----|------|
| BVCBO | IC = 100 μA | 60 | | | V |
| BVCEO | IC = 10 mA | 60 | | | V |
| BVEBO | IE = 10 μA | 6 | | | V |
| ICBO | VCB = 60 V | | 2.0 | 100 | nA |
| ICEO | VCE = 60 V | | 1.5 | 100 | nA |
| IEBO | VEB = 6 V | | 1.0 | 100 | nA |
| hFE | IC = 1.0 mA, VCE = 5.0 V | 100 | | 300 | |
| hFE | IC = 10 mA, VCE = 5.0 V | 100 | | | |
| hFE | IC = 100 mA, VCE = 5.0 V | 75 | | | |
| VCE(SAT) | IC = 100 mA, IB = 5.0 mA | | | 0.4 | V |
| VCE(SAT) | IC = 100 mA, IB = 10 mA | | | 0.3 | V |
| VBE(ON) | IC = 1.0 mA, VCE = 5.0 V | 0.5 | | 0.7 | V |
| fT | IC = 10 mA, VCE = 5.0 V, f = 100MHz | 150 | 350 | | MHz |
| Cob | VCB = 5.0 V, IE = 0, f = 1.0 MHz | | | 6.0 | pF |
| Cib | VBE = 5.0 V, IC = 0, f = 1.0 MHz | | | 25 | pF |

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